

Title (en)
HORIZONTAL INJECTOR FOR AIRCRAFT STEAM OVEN

Title (de)
HORIZONTALER INJEKTOR FÜR FLUGZEUGDAMPFOFEN

Title (fr)
INJECTEUR HORIZONTAL POUR FOUR À VAPEUR POUR AVION

Publication
EP 3680562 A1 20200715 (EN)

Application
EP 19219044 A 20191220

Priority
US 201916245481 A 20190111

Abstract (en)
A steam oven for a mobile platform (e.g., sized for a galley insert in an aircraft galley) injects water into the oven cavity (14) to generate steam. The water is injected as a horizontal jet over a fan (124) and into an opposing baffle plate (120), where a portion is heated on contact and immediately evaporates into steam. The steam is then distributed throughout the oven cavity by the fan. The unevaporated portion is drawn downward into the fan, where it too is distributed throughout the oven cavity rather than collecting on the cavity floor. Rather than building up within the injector, scale accumulates on the baffle plate where it may easily be cleaned or removed.

IPC 8 full level
F24C 15/32 (2006.01); **B64D 11/04** (2006.01)

CPC (source: EP US)
B64D 11/04 (2013.01 - US); **F24C 15/327** (2013.01 - EP US); **B64D 11/04** (2013.01 - EP)

Citation (search report)

- [XYI] DE 2842771 A1 19800410 - LECHMETALL LANDSBERG GMBH
- [X] EP 0653593 A1 19950517 - ZANUSSI GRANDI IMPIANTI SPA [IT]
- [X] DE 202004000106 U1 20040617 - RATIONAL AG [DE]
- [Y] EP 2236942 A1 20101006 - JAMCO CORP [JP]
- [Y] DE 102014217024 A1 20160303 - BSH HAUSGERAETE GMBH [DE]
- [Y] US 2016061458 A1 20160303 - VAN DER LINDEN JEROEN [NL]

Cited by
US11946646B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3680562 A1 20200715; EP 3680562 B1 20230607; US 11852350 B1 20231226

DOCDB simple family (application)
EP 19219044 A 20191220; US 201916245481 A 20190111